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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/780,480	02/12/2001	Akira Senoo	Q62848	8117

7590 11/04/2002

SUGHRUE, MION, ZINN, MACPEAK & SEAS
2100 Pennsylvania Avenue, N.W.
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[REDACTED] EXAMINER

CUEVAS, PEDRO J

ART UNIT	PAPER NUMBER
2834	

DATE MAILED: 11/04/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)						
	09/780,480	SENOO ET AL.						
	Examiner Pedro J. Cuevas	Art Unit 2834						
<p>-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --</p> <p>Period for Reply</p> <p>A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.</p> <ul style="list-style-type: none"> - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 								
<p>Status</p> <p>1)<input checked="" type="checkbox"/> Responsive to communication(s) filed on <u>23 August 2002</u>.</p> <p>2a)<input checked="" type="checkbox"/> This action is FINAL. 2b)<input type="checkbox"/> This action is non-final.</p> <p>3)<input type="checkbox"/> Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213.</p>								
<p>Disposition of Claims</p> <p>4)<input checked="" type="checkbox"/> Claim(s) <u>1-16</u> is/are pending in the application.</p> <p>4a) Of the above claim(s) <u>1-9</u> is/are withdrawn from consideration.</p> <p>5)<input type="checkbox"/> Claim(s) _____ is/are allowed.</p> <p>6)<input checked="" type="checkbox"/> Claim(s) <u>10-13, 15 and 16</u> is/are rejected.</p> <p>7)<input checked="" type="checkbox"/> Claim(s) <u>14</u> is/are objected to.</p> <p>8)<input type="checkbox"/> Claim(s) _____ are subject to restriction and/or election requirement.</p>								
<p>Application Papers</p> <p>9)<input type="checkbox"/> The specification is objected to by the Examiner.</p> <p>10)<input type="checkbox"/> The drawing(s) filed on _____ is/are: a)<input type="checkbox"/> accepted or b)<input type="checkbox"/> objected to by the Examiner. <small>Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).</small></p> <p>11)<input type="checkbox"/> The proposed drawing correction filed on _____ is: a)<input type="checkbox"/> approved b)<input type="checkbox"/> disapproved by the Examiner. <small>If approved, corrected drawings are required in reply to this Office action.</small></p> <p>12)<input type="checkbox"/> The oath or declaration is objected to by the Examiner.</p>								
<p>Priority under 35 U.S.C. §§ 119 and 120</p> <p>13)<input type="checkbox"/> Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)<input type="checkbox"/> All b)<input type="checkbox"/> Some * c)<input type="checkbox"/> None of: 1.<input type="checkbox"/> Certified copies of the priority documents have been received. 2.<input type="checkbox"/> Certified copies of the priority documents have been received in Application No. _____. 3.<input type="checkbox"/> Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.</p> <p>14)<input type="checkbox"/> Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a)<input type="checkbox"/> The translation of the foreign language provisional application has been received.</p> <p>15)<input type="checkbox"/> Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</p>								
<p>Attachment(s)</p> <table border="0"> <tr> <td>1)<input checked="" type="checkbox"/> Notice of References Cited (PTO-892)</td> <td>4)<input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____</td> </tr> <tr> <td>2)<input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</td> <td>5)<input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</td> </tr> <tr> <td>3)<input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____</td> <td>6)<input type="checkbox"/> Other: _____</td> </tr> </table>			1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____	2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)	3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____	6) <input type="checkbox"/> Other: _____
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3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____	6) <input type="checkbox"/> Other: _____							

DETAILED ACTION

Election/Restrictions

1. This application contains claims 1-9 drawn to an invention nonelected without traverse in Paper No. 5. A complete reply to the final rejection must include cancelation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 10, 11 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 4,829,206 to Honshima et al.

Honshima et al. clearly teaches the construction of an armature for an electric rotary machine, the armature comprising:

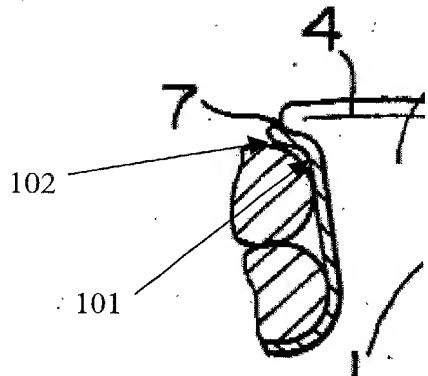
an armature core (2) provided with a plurality of slots (1) extending in an axial direction and disposed alongside each other in a circumferential direction;

an armature winding (3) inserted in the slots so as to be mounted on the armature core; and

an insulator (6) mounted in each of the slots wherein:

the insulator is disposed between an inner face of each slot and the armature winding (Figures 1, 2A, 2D, 4, 5A and 5B); and

first creases (101, added by the examiner) are formed on side portions of each insulator so as to extend in a lengthwise direction of the slot at a slot-opening end of the side portions, the first creases being formed by first bent parts for angling the slot-opening ends of the side portions so as to be apart from each other.



4. With regards to claim 11, Honshima et al. disclose second creases (102, added by the examiner) are formed on the side portions of each insulator so as to extend in a lengthwise direction of the slot at a location closer to the slot-opening end than the first creases, the second creases being formed by second bent parts for angling the slot-opening ends of the side portions toward each other.
5. With regards to claim 13, Honshima et al. disclose the side portion of each insulator expand in a circumferential direction at the bottom ends of the side portions of the insulator, thereby coming into close contact with inner faces of the slot toward the bottom thereof as shown in Figures 1, 2A, 2D, 4, 5A and 5B.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 12 and 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 4,829,206 to Honshima et al. in view of U.S. Patent No. 5,508,577 to Shiga et al.

Honshima et al. disclose the construction of an armature for an electric rotary machine as described above.

However, it fails to disclose the first crease and the second crease of a first side portion of each insulator are formed shifted toward the bottom of the slot with respect to the first crease and the second crease, respectively, of a second side portion of each insulator, whereby the top ends of the first and second side portions of each insulator, one overlapping the other, enclose an opening of each slot in a manner such that the top end of the second side portion is positioned over the top end of the first side portion.

Shiga et al. teach the construction of an electric rotating machine wherein a first side portion of each insulator are formed shifted toward the bottom of the slot with respect to a second side portion of each insulator, whereby the top ends of the first and second side portions of each insulator, one overlapping the other (Figure 7), enclose an opening of each slot in a manner such that the top end of the second side portion is positioned over the top end of the first side portion for the purpose of improving the resistance to the centrifugal forces.

It would have been obvious to one skilled in the art at the time the invention was made to use the formation of the side portions of the insulators disclosed by Shiga et al. on the armature disclosed by Honshima et al. for the purpose of improving the resistance to the centrifugal forces.

8. With regards to claim 15, Honshima et al. disclose an armature winding which comprises a plurality of winding assemblies, and one insulator is received in each slot for insulating the plurality of the winding assemblies from an inner face of each slot as shown in Figures 1, 2A, 2D, 4, 5A and 5B.

9. With regards to claim 16, Shiga et al. disclose an armature winding which comprises a plurality of the winding assemblies, and a plurality of insulators are received in each slot for individually insulating the plurality of the winding assemblies from an inner face of each slot as shown in Figure 7.

Response to Arguments

10. Applicant's arguments filed on August 23, 2002 have been fully considered but they are not persuasive.

11. In response to applicant's argument that the first creases are preformed prior to the insulator being mounted in the slots, it must be noted that the method of forming the device is not germane to the issue of patentability of the device itself. Therefore, this limitation has not been given patentable weight.

12. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., the end portions of the upper and lower insulating films 540 and 541 do not enclose the opening of the

slot) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Allowable Subject Matter

13. Claim 14 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
14. The following is a statement of reasons for the indication of allowable subject matter: the prior art of record fails to disclose, alone or in combination, an armature for a dynamoelectric machine as claimed on independent claim 10, wherein the armature winding constituted by at least one winding assembly into which a pair of first and second winding groups is assembled before insertion in the slots, the first winding group comprising a number of first winding sub-portions each having one turn constructed by winding a strand of wire made of a continuous conductor so as to alternately occupy an inner layer and an outer layer in a slot depth direction within the slots at intervals of a predetermined number of slots, the first winding sub-portions being disposed at a pitch of one slot from each other and being equal in number to the predetermined number of slots, and the second winding group comprising a number of second winding sub-portions each having one turn constructed by winding a strand of wire made of a continuous conductor so as to alternately occupy an inner layer and an outer layer in a slot depth direction within the slots at intervals of the predetermined number of slots and so as to be inversely wound and offset by an electrical angle of 180 degrees relative to the first winding

sub-portions, the second winding sub-portions being disposed at a pitch of one slot from each other and being equal in number of the predetermined number of slots.

Conclusion

15. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

16. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro J. Cuevas whose telephone number is (703) 308-4904. The examiner can normally be reached on M-F from 8:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor R. Ramírez can be reached on (703) 308-1371. The fax phone numbers for

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the organization where this application or proceeding is assigned are (703) 305-1341 for regular communications and (703) 305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Pedro J. Cuevas
October 30, 2002




PEDRO J. CUEVAS
PATENT PRACTITIONER
REG. NO. 28,341
VOLUME 30, NUMBER 10, OCTOBER 2002